

17. The method of claim **1**, wherein applying the vacuum to the part of the primary packaging component includes subjecting the part of the primary packaging component to a pressure of between 70 and 75 mBar.

18. A method of preparing a drug product, comprising:

introducing a volume of a formulated drug substance into a prefillable syringe, the formulated drug substance comprising an antibody, wherein the volume of the formulated drug substance is greater than a nominal volume of the prefillable syringe; and

stoppering the prefillable syringe using one of a vacuum stoppering process or a vacuum-assisted stoppering process.

19. A drug product, comprising:

a primary packaging component having a nominal volume;

a volume of formulated drug substance in the primary packaging component, wherein the volume of formu-

lated drug substance is greater than the nominal volume; and

a stopper.

20. The drug product of claim **19**, wherein the primary packaging component is a prefillable syringe.

21. The drug product of claim **19**, wherein the nominal volume is 1 mL, and the volume of formulated drug substance is at least 1.05 mL.

22. The drug product of claim **19**, wherein the primary packaging component is a prefillable syringe having a body and a flange surrounding an opening in the body, and wherein a minimum distance between the flange and the stopper is at least 2.5 mm.

23. The drug product of claim **19**, wherein the formulated drug substance comprises a protein, a nucleic acid, a blood component, a vaccine, an anti-allergenic, a gene therapy medicament, an antibiotic, a pain management medication, an anesthetic, and/or a hormone.

24. The drug product of claim **19**, wherein the formulated drug substance comprises an antibody.

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